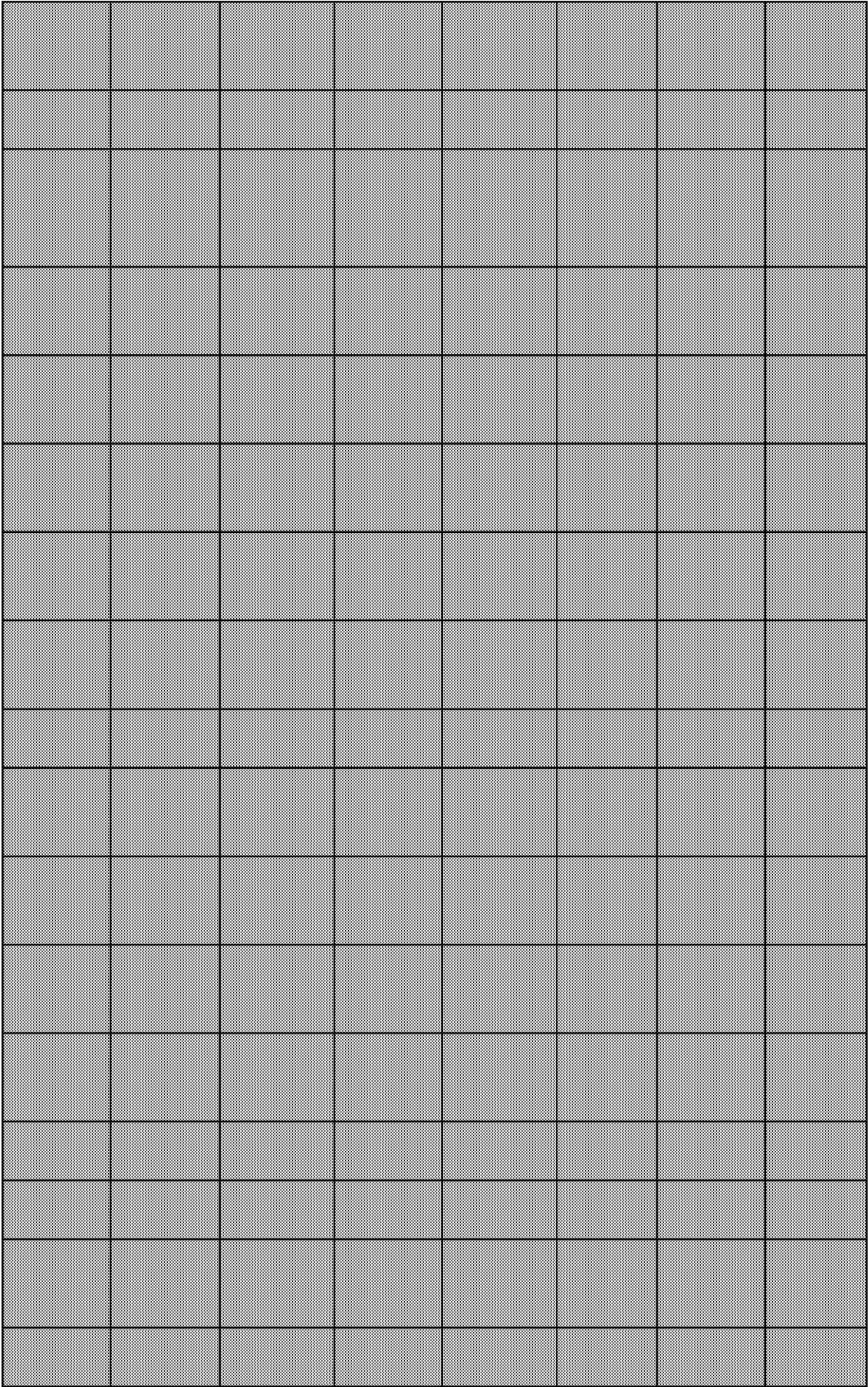


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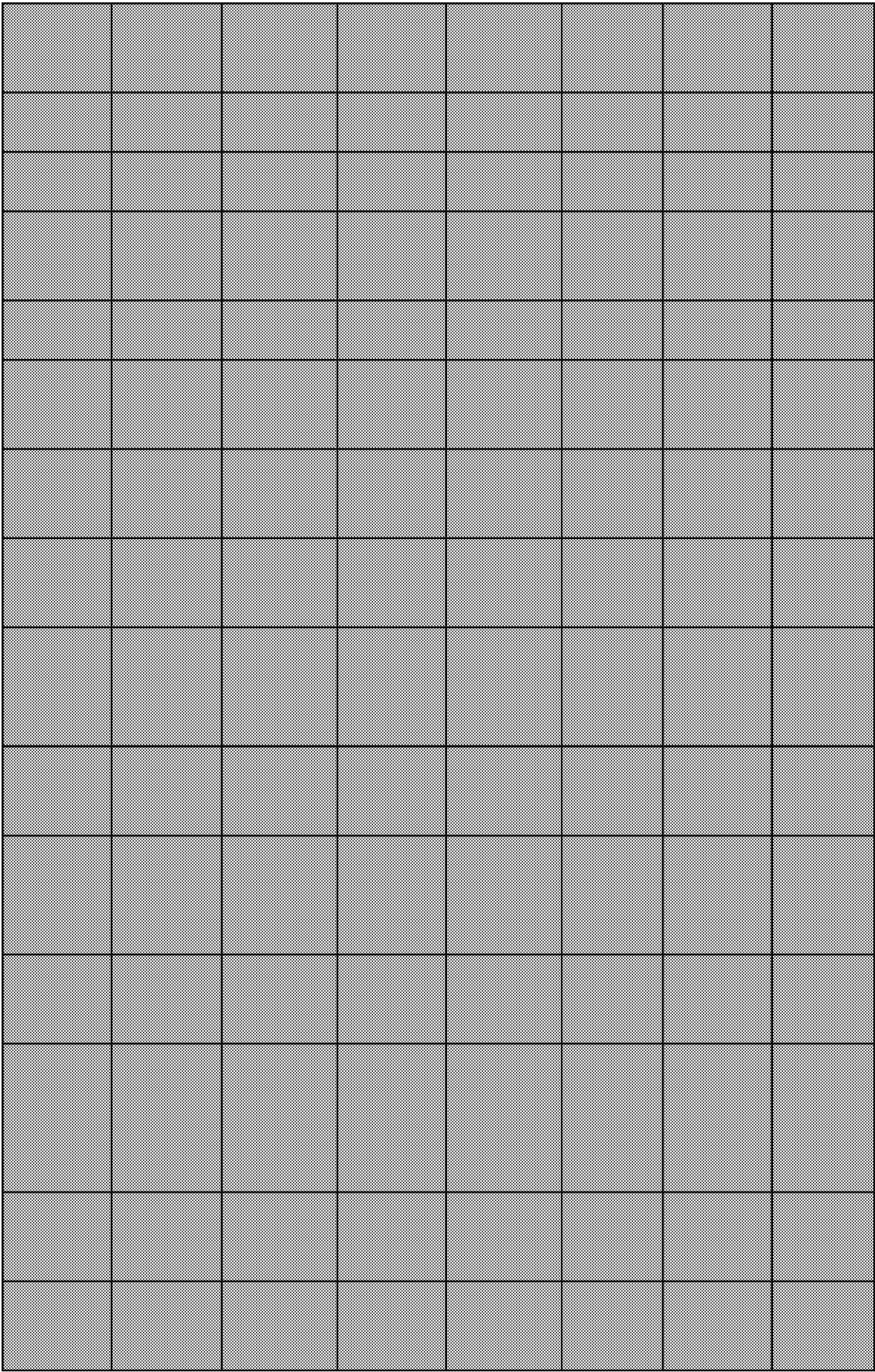
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NAD kinase (NADK), which phosphorylates NAD to NADP, is one of the key enzymes regulating the cellular NADP(H) level
The copper(I) halide aggregates represent a versatile family in coordination chemistry and crystal engineering. First discovered
<i>Lactobacillus sanfranciscensis</i> is the key bacterium in traditional sourdough fermentation. The molecular background of its
A green fluorescent protein-based <i>Pseudomonas putida</i> reporter was successfully constructed and shown to be capable of
All prokaryotic (NiFe)-hydrogenases so far studied at the primary sequence level appear to have evolved from a common
We characterized various phenotypes of a mutant inactivated for CymR, the master regulator of cysteine metabolism in <i>E.</i>
Three strains of photoautotrophic, heterocystous, nitrogen-fixing cyanobacterium <i>Anabaena</i> , native to Indian paddy fields
We have previously shown that the yeast <i>Saccharomyces cerevisiae</i> contains an antioxidant enzyme that can provide protection
Using the rice PEX14 cDNA as a bait in a yeast two-hybrid assay, two splice variants of the type I peroxisomal targeting signal
Phosphoenolpyruvate carboxylase (PEPC) is a key enzyme of C4 photosynthetic pathway and plays an important biochemical
In this study, we cloned the <i>Pseudomonas aeruginosa</i> zwf gene, encoding glucose-6-phosphate dehydrogenase (G6PDH),
A new gene mvrC conferring resistance to methyl viologen, a powerful superoxide radical propagator, was cloned on 13.5
<i>Pseudomonas aeruginosa</i> is an obligate aerobe that is virtually ubiquitous in the environment. During aerobic respiration
Heme oxygenase (HO; EC 1.14.99.3) is an important enzyme that yields biliverdin IX alpha (BV), carbon monoxide and iron
In this work it is shown that the majority of salmonella serovars most frequently associated with the systemic infection of

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Aspergillus fumigatus is an opportunistic pathogen and allergen of mammals. Calcium signalling is essential for A. fumiga
Staphylococcus xylosus is a facultative anaerobic bacterium used as a starter culture for fermented meat products. In an
Candida albicans possesses a cyanide-resistant respiratory pathway mediated by alternative oxidase (AOX), which seems
Four species representing three genera of halophilic archaeobacteria were examined for the presence of genomic sequen
Data mining the complete rice genome sequences revealed a genomic fragment encoding a characteristic metallothione
In this study, a cell-based array technology that uses recombinant bioluminescent bacteria to detect and classify environ
A manganic porphyrin (MnTMPyP), which catalyzed the dismutation of O ₂ (-), facilitated the aerobic growth of a sodA so
The Erwinia chrysanthemi genome is predicted to encode three systems, Nif, Isc and Suf, known to assist Fe/S cluster bio
A selection procedure was developed to isolate Bifidobacterium strains from food and faeces which are able to grow und
Cells devoid of cytosolic superoxide dismutase (SOD) suffer enzyme inactivation, growth deficiencies, and DNA damage, f
A gene with greater than 50% amino acid sequence identity to eukaryotic Cu/Zn superoxide dismutase genes (sod) was f
A Bacillus subtilis sigM null mutant, lacking the extracytoplasmic function sigma(M) protein, was sensitive to paraquat (P
Transcriptional activation of the promoters of the mar/soxRS regulons by the sequence-related but independently induci
The toxic effects of H ₂ O ₂ , paraquat, and oxidized low density lipoproteins are more expressed on superoxide dismutase-
The plant hormone, abscisic acid (ABA), is a main signal transducer that confers abiotic stress tolerance to plants. Althoug
It was shown previously that Arabidopsis (Arabidopsis thaliana) desaturase 2 (ADS2) cDNA was isolated and it was showr
Cyanobacterial aquaporins play an important role in the regulation of various physiological functions: cell volume contro

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